Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-05-10** **Date: 08-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/000120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-10 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	429	429	2.9	97.1	90-100
3	20 mm	7195	7624	50.8	49.2	30-70
4	10 mm	3859	11483	76.6	23.4	10-35
5	4.75 mm	2953	14436	96.2	3.8	0-5
6	Pan	564	15000	100.0	0	---

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CIVIL PRO Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-05-10** **Date: 07-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64
Customer Reference	:	EE(YNK.D)E-PMT-14/W.O/000120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-10 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	155	155	3.1	96.9	90-100
3	10 mm	3344	3499	70.0	30.0	25-55
4	4.75 mm	1377	4876	97.5	2.5	0-10
5	Pan	124	5000	100	0	–

AE-2 A.E.E

AE-2

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-05-10** **Date: 07-03-18**

Sample ID No : 2018-03-05-10 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-03-05-10

Date: 07-03-18

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-03-18

Sample ID No : 2018-03-05-10 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 05-03-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	154	192	19.2	80.8	60-95	75-100	85-100	95-100
4	1.18 mm	202	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	193	587	58.7	41.3	15-34	35-59	60-79	80-100
6	300 micron	183	770	77.0	23.0	5-20	8-30	12-40	15-50
7	150 micron	191	961	96.1	3.9	0-10	0-10	0-10	0-15
8	Pan	39	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-03-05-10**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/000120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-10 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012
Date of test:	:	06-03-18

Date: 07-03-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.395	532	652	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	546	653	19.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.884	563	672	19.0%	Satisfactory	Satisfactory

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KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-03-05-10

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore. **Date: 10-03-18**

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-03-18

Sample ID No : 2018-03-05-10 /06

Sample Type /Size : 100mm thick Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 06/03/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-03-05-10

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore. **Date: 10-03-18**

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-03-18

Sample ID No : 2018-03-05-10 /05

Sample Type /Size : 200mm thick Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 06/03/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.01	200.05	2.895	17670	275.9	15.6	14.5	18.2
2	Cover Slab-2	150.07	200.17	2.886	17685	278.1	15.7	14.6	18.3
3	Cover Slab-3	150.03	200.12	2.845	17675	277.5	15.7	14.6	18.3

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/03/2018

Lab ID	:	CP-2018-03-15-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/000120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-18
Sample ID No	:	2018-03-15-10 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	12/03/2018	19/03/2018	149.17 X 151.34 X 150.22	22575	8.145	404.1	17.9	17.5
2	Drain Concrete	M20	12/03/2018	19/03/2018	150.49 X 150.16 X 150.34	22598	8.201	393.2	17.4	
3	Drain Concrete	M20	12/03/2018	19/03/2018	150.55 X 149.65 X 149.31	22530	8.197	385.3	17.1	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexports@gmail.com
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-03-15-10

Date: 09/04/2018

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-03-18

Sample ID No : 2018-03-15-10 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	12/03/2018	09/04/2018	149.35 X 151.54 X 151.37	22632	8.195	500.2	22.1	21.7
2	Drain Concrete	M20	12/03/2018	09/04/2018	150.49 X 150.00 X 149.64	22574	8.146	489.8	21.7	
3	Drain Concrete	M20	12/03/2018	09/04/2018	151.37 X 150.55 X 151.08	22789	8.198	487.7	21.4	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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M : 9972924526 | Tel : +91 80 23444801 | e : rochan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/03/2018

Lab ID	:	CP-2018-03-15-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/000120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-18
Sample ID No	:	2018-03-15-10 /03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/03/2018	20/03/2018	149.66 X 150.24 X 150.67	22485	8.147	395.7	17.6	17.6
2	Drain Concrete	M20	13/03/2018	20/03/2018	151.24 X 149.87 X 150.33	22666	8.214	394.4	17.4	
3	Drain Concrete	M20	13/03/2018	20/03/2018	151.47 X 150.47 X 150.45	22792	8.199	408.0	17.9	

Note:
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AE-2 A.E.E Asst Engr AE-02

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-03-15-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/000120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-18
Sample ID No	:	2018-03-15-10 /05
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date: 20/03/2018

Date of test : 20/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Sperimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/03/2018	20/03/2018	150.42 X 150.54 X 150.45	22644	8.312	414.4	18.3	18.3
2	Drain Concrete	M20	13/03/2018	20/03/2018	150.42 X 150.54 X 150.45	22644	8.331	409.9	18.1	
3	Drain Concrete	M20	13/03/2018	20/03/2018	150.32 X 150.54 X 150.35	22629	8.345	420.9	18.6	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-03-15-10

Date: 10/04/2018

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to Drains and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-03-18

Sample ID No : 2018-03-15-10 /06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 10/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/03/2018	10/04/2018	151.64 X 151.54 X 149.49	22980	8.358	546.9	23.8	23.2
2	Drain Concrete	M20	13/03/2018	10/04/2018	150.14 X 149.87 X 150.66	22500	8.238	504.0	22.4	
3	Drain Concrete	M20	13/03/2018	10/04/2018	151.27 X 150.82 X 149.12	22813	8.235	533.8	23.4	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/03/2018

Lab ID	:	CP-2018-03-19-11
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/000120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-03-18
Sample ID No	:	2018-03-19-11 /01
Customer ID	:	C.C Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C.C Road	M20	16/03/2018	23/03/2018	149.85 X 150.23 X 150.44	22512	8.196	389.5	17.3	17.5
2	C.C Road	M20	16/03/2018	23/03/2018	150.68 X 150.66 X 149.83	22701	8.214	397.3	17.5	
3	C.C Road	M20	16/03/2018	23/03/2018	149.73 X 150.47 X 151.29	22530	8.235	398.8	17.7	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-03-19-11

Date: 24/03/2018

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-03-18

Sample ID No : 2018-03-19-11 /03

Customer ID : C.C Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C.C Road	M20	17/03/2018	24/03/2018	150.89 X 149.64 X 150.02	22579	8.221	404.2	17.9	18.3
2	C.C Road	M20	17/03/2018	24/03/2018	149.50 X 151.15 X 151.26	22597	8.220	411.3	18.2	
3	C.C Road	M20	17/03/2018	24/03/2018	149.89 X 150.81 X 151.46	22604	8.111	422.7	18.7	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Report No: CP/TC/02

Lab ID : CP-2018-03-19-11

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Date: 14/04/2018

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to Paving and Roads at Subhash Nagar, Ayodhya Layout, Chandrashekara Layout, Yelahanka Old Town and Surrounding Areas in Ward No:02 of Yelahanka Sub Division

Agency : Sri.Y.A Dhanashekar, No:16, K.M.S Colony, Yelahanka, Bangalore-64

Customer's Reference : EE(YNK DIV-PMU-14)/K.G(MM)/No:KG/14-15

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-03-18

Sample ID No : 2018-03-19-11 (04)

Customer ID : C.C Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 14/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional Area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	C.C Road	M20	17/03/2018	14/04/2018	150.50 149.04 150.98	22501	8.375	779.5	34.6	33.8
2	C.C Road	M20	17/03/2018	14/04/2018	149.80 151.13 149.93	22660	8.375	757.4	33.5	
3	C.C Road	M20	17/03/2018	14/04/2018	149.78 151.31 149.74	22663	8.375	760.8	33.6	

Note:
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ARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-03-05-10 **Date: 08-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP,
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK D)E-PMT-14/W O/000120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-10 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	06-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.65	–
2	Finess by Air permeablity method (m^2/kg,Min)	296.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm

Note:

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-03-05-10 **Date: 03-04-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to Darins and Roads at Balance Portion of Kondappa Layout Chowdeshwari Layout, Yelahanka Old Town and Surrounding areas in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/000120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-10 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	06-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
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